## APPLICATION FOR UNITED STATES LETTERS PATENT

for

# **GAMING MACHINE WITH MULTI-LEVEL** PROGRESSIVE JACKPOT

by

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# GAMING MACHINE WITH MULTI-LEVEL PROGRESSIVE JACKPOT

#### FIELD OF THE INVENTION

[01] The present invention relates generally to gaming machines and, more particularly, to a gaming machine and a gaming machine network having an enhanced progressive game.

#### **BACKGROUND OF THE INVENTION**

- [02] Gaming machines, such as slot machines, video poker machines, and the like, have been a cornerstone of the gaming industry for several years. Generally, the popularity of such machines with players is dependent on the likelihood (or perceived likelihood) of winning money at the machine and the intrinsic entertainment value of the machine relative to other available gaming options. Where the available gaming options include a number of competing machines and the expectation of winning each machine is roughly the same (or believed to be the same), players are most likely to be attracted to the most entertaining and exciting of the machines.
- [03] Consequently, shrewd operators strive to employ the most entertaining and exciting machines available because such machines attract frequent play and, hence, increase profitability to the operator. In the competitive gaming machine industry, there is a continuing need for gaming machine manufacturers to produce new types of games, or enhancements to existing games, which will attract frequent play by enhancing the entertainment value and excitement associated with the game.
- [04] One concept that has been successfully employed to enhance the entertainment value of a game is that of a "secondary" or "bonus" game which may be played in conjunction with a "basic" game. The bonus game may comprise any type of game, either similar to or completely different from the basic game, and is entered upon the occurrence of a selected event or outcome of the basic game. Such a bonus game produces a significantly higher level of player excitement than the basic game because it provides a greater expectation of winning than the basic game.
- [05] Another concept that has been employed is the use of a progressive jackpot. In the gaming industry, a "progressive" involves collecting coin-in data from participating gaming device(s) (e.g., slot machines), contributing a percentage of that

coin-in data to a jackpot amount, and awarding that jackpot amount to a player upon the occurrence of a certain jackpot-won event. A jackpot-won event typically occurs when a "progressive winning position" is achieved at a participating gaming device. If the gaming device is a slot machine, a progressive winning position may, for example, correspond to alignment of progressive jackpot reel symbols along a certain payline. The initial progressive jackpot is a predetermined minimum amount. That jackpot amount, however, progressively increases as players continue to play the gaming machine without winning the jackpot. Further, when several gaming machines are linked together such that several players at several gaming machines compete for the same jackpot, the jackpot progressively increases at a much faster rate, which leads to further player excitement. In existing progressive jackpots, the progressive jackpot may not be directly linked to the basic game. Also, players do not interact at all with the progressive jackpot.

[06] Thus, there is a need for increasing player excitement by intertwining the progressive jackpot with the basic game.

#### SUMMARY OF THE INVENTION

[07] In accordance with one aspect of the present invention, there is provided a gaming system having a special payout with a first payout and a second payout. The gaming system includes a gaming terminal for playing a basic game having a randomly selected outcome. The gaming terminal has a side-wager input device for allowing a player to be eligible to win the special payout. In response to activation of the activation device, the gaming terminal credits the player the first payout when a first randomly selected outcome is achieved in the basic game and the gaming terminal credits the player the second payout when a second randomly selected outcome is achieved in the basic game.

[08] In accordance with another aspect of the present invention, there is provided a gaming system including a plurality of gaming terminals that conduct wagering games. Located above and coupled to the plurality of gaming terminals is signage. The signage includes a signage controller which controls the special payout for players at the gaming terminals.

[09] The above summary of the present invention is not intended to represent each embodiment, or every aspect, of the present invention. This is the purpose of the Figures and the detailed description which follow.

#### BRIEF DESCRIPTION OF THE DRAWINGS

- [10] The foregoing and other advantages of the invention will become apparent upon reading the following detailed description and upon reference to the drawings.
- [11] FIG. 1 is a perspective view of a video gaming machine according to one embodiment of the present invention.
- [12] FIG. 2 is a block diagram of the gaming machine of FIG. 1.
- [13] FIG. 3 is a gaming system of interconnected video gaming machines and signage according to one embodiment of the present invention.
- [14] FIG. 4 is an illustration of a pay table on the gaming machine of FIG. 1.
- [15] FIG. 5 is a flowchart describing the operation of the gaming machines and the signage of FIG. 3.
- [16] FIG. 6 is an illustration of a progressive payout screen which may be implemented on the gaming machine achieving the progressive payout at step 74 of FIG. 5.
- [17] While the invention is susceptible to various modifications and alternative forms, specific embodiments have been shown by way of example in the drawings and will be described in detail herein. It should be understood, however, that the invention is not intended to be limited to the particular forms disclosed. Rather, the invention is to cover all modifications, equivalents, and alternatives falling within the spirit and scope of the invention as defined by the appended claims.

### **DESCRIPTION OF ILLUSTRATIVE EMBODIMENTS**

[18] Turning now to the drawings and referring initially to FIG. 1, a video gaming machine 10 is depicted that may be used to implement the enhanced progressive game according to the present invention. The gaming machine 10 includes a video display 12 that may comprise a CRT, LCD, plasma, LED, electro-luminescent display, or generally any type of video display known in the art. In the illustrated embodiment, the gaming machine 10 is an "upright" version in which the video display 12 includes a touch screen and is oriented vertically relative to the player. It will be appreciated,

however, that any of several other models of gaming machines are within the scope of the present invention, including, for example, a "slant-top" version in which the video display is slanted at about a 30° angle toward the player, or gaming machines that include mechanical, rather than video, displays.

- [19] In one embodiment, the gaming machine 10 is operable to play a game entitled WHO DUNNIT?<sup>TM</sup> having a mystery theme. The WHO DUNNIT?<sup>TM</sup> game features a basic game in the form of a slot machine having a randomly selected outcome. In the WHO DUNNIT?<sup>TM</sup> game, the outcome is determined by five simulated spinning reels featuring a variety of symbols. Such a gaming machine is disclosed in detail in U.S. Publication No. US 2002/0090990 A1, which is incorporated herein by reference in its entirety. It will be appreciated, however, that the gaming machine 10 may be implemented with games other than the WHO DUNNIT?<sup>TM</sup> game and/or with several alternative game themes.
- [20] FIG. 2 is a block diagram of a control system suitable for operating the gaming machine 10. Coin/credit detector 14 signals a CPU 16 when a player has inserted a number of coins or played a number of credits. Then, the CPU 16 executes a game program which causes the video display 12 to display the basic game that includes simulated reels with symbols displayed thereon. The player may select the number of paylines to play and the amount to wager via touch screen input keys 17.
- [21] The touch screen input keys 17 include a side-wager input device, such as an option key, button, or switch 18 (hereinafter "option key 18"), also shown in FIG. 1. The option key 18 allows the player to be eligible to enter to win a progressive payout which is described in more detail below.
- [22] The basic game commences in response to the player activating a switch 20 in a lever or push button, causing the CPU 16 to set the reels in motion, randomly select a game outcome, and then stop the reels to display symbols corresponding to the preselected game outcome. Preferably, certain basic game outcomes cause the CPU 16 to enter a bonus mode, which causes the video display 12 to show a bonus game, as is known in the art. Other outcomes cause the player to win a progressive game jackpot, which is described below with reference to FIG. 5.
- [23] A system memory 22 stores control software, operational instructions, and data associated with the gaming machine 10. In one embodiment, the system memory 22

comprises a separate read-only memory (ROM) and battery-backed random-access memory (RAM). It will be appreciated, however, that the system memory 22 may be implemented on any of several alternative types of memory structures or may be implemented on a single memory structure. A payoff mechanism 24 is operable in response to instructions from the CPU 16 to award a payoff of coins or credits to the player in response to certain winning outcomes which may occur in the basic game or bonus game. The payoff amounts corresponding to certain combinations of symbols in the basic game are predetermined according to a pay table stored in the system memory 22. The payoff amounts corresponding to certain outcomes of the bonus game are also stored in the system memory 22.

- [24] The gaming machine 10 of FIGS. 1 and 2 is a gaming terminal that receives inputs and randomly selects outputs and displays outputs, as controlled by the internal CPU 16. It will be appreciated, however, that the present invention can be used by gaming terminals controlled by external CPUs.
- [25] While the gaming machine 10 of FIGS. 1 and 2 has been described with respect to providing a player a basic game and a bonus game, the gaming machine 10 can be connected to a progressive payout to which several gaming machines are linked. The progressive payout, or jackpot, includes multiple payouts or jackpots that are awarded to the player. This gaming network and, in particular, the novel wagering feature that allows the player of the gaming machine 10 to enter play for the progressive jackpot will be described below with reference to FIGS. 3-6.
- [26] Referring now to FIG. 3, a gaming system 28 of gaming machines 10a, 10b, 10c, 10d is shown. The four gaming machines 10a, 10b, 10c, 10d are of the type described above in relation to FIGS. 1 and 2. The four gaming machines 10a, 10b, 10c, 10d are interconnected and included under signage 30. The signage 30 includes at least one jackpot screen 34 displaying a plurality of dollar amounts for a multi-level progressive payout or progressive jackpot. In this embodiment, there are three dollar amount levels: a Mini Jackpot, a Maxi Jackpot, and a Mega Jackpot. In other embodiments, there may be any number of progressive jackpots.
- [27] The signage 30 includes a signage controller 36 that is connected to each of the four gaming machines 10a, 10b, 10c, 10d. The signage controller 36 transmits information to and receives information from the CPU 16 (FIG. 2) in each of the four gaming machines 10a, 10b, 10c, 10d throughout the game. The gaming system 28

allows for various aspects of the gaming machines 10a, 10b, 10c, 10d, such as updating the progressive jackpots to be controlled through the signage controller 36 in the signage 30. Thus, all of the gaming machines 10a, 10b, 10c, 10d are linked to the progressive game.

[28] Turning now to FIG. 4, a pay table 38 will be described. The pay table 38 illustrates to players of the gaming machines 10a, 10b, 10c, 10d what the wining combination of symbols are and how many credits the player is awarded for achieving a winning outcome. The pay table 38 includes a first column 40 indicating the winning combinations of symbols. A second column 42 defines the amount that the player is awarded in a basic game for achieving one of these outcomes. All of the outcomes listed in the first column 40 have a corresponding payout amount in the second column 42. A third column 44 identifies which of the outcomes in the first column 40 trigger payout of the progressive jackpots and which progressive jackpots are won.

[29] Turning now to FIG. 5, the operation of entering and awarding the progressive jackpots of the gaming system 28 will be described. Reference to FIG. 6 will be made to best describe this operation. In step 60, a player at the gaming machine 10 begins a game by any conventional method (e.g., inserting coins or using credits). Each gaming machine 10a, 10b, 10c, 10d has a basic game that involves a player choosing a number of paylines to play and choosing a wager to place on each payline. In some embodiments, there are a maximum of nine paylines. After choosing how many paylines to play, the player selects how many credits (e.g., 1-5) to wager on each payline. At step 62, the player is then given the option to make an additional wager, which would make the player eligible to win one of the progressive jackpots. The player makes the wager by pressing the option key 18 shown on FIGS. 1 and 2.

[30] At step 64, the player operates the game by causing the reels to spin, generating an outcome of various symbols. At step 64, it is determined if any of the outcomes (i.e., arrangement of symbols) shown in the pay table 38 (FIG. 4) are achieved. If the answer is "no," then the gaming system returns to step 60, allowing the player to play again.

[31] If any of the lines match an outcome shown in the pay table 38, the system next determines if that outcome corresponds to an outcome which triggers the jackpot payout at step 68. If the answer is "no," then the player is awarded the amount of

credits shown in the second column 42 of the pay table 38 (FIG. 4) as corresponding to that particular outcome at step 70. If the answer is "yes," the gaming device must next determine, at step 72, if the player activated the option key 18 for the progressive jackpot. If the player did not select to play for the progressive jackpot by activating the option key 18, then the gaming system proceeds to step 70 and pays the amount shown in the second column of the pay table of FIG. 4.

- [32] If the player did activate the option key 18 at the start of the game, then the gaming machine proceeds to step 74 and pays out to the player the appropriate progressive jackpot from the third column 44 of the pay table 38 (FIG. 4). The progressive payout is awarded when a progressive outcome, *e.g.*, a combination of basic game symbols, occurs on the screen. The level of the progressive jackpot that is awarded is dependant upon which combination of characters the player has hit in the basic game. For example, as shown in FIG. 4, in an embodiment having three levels of progressive jackpots, three sevens in a line may pay out the lowest or mini jackpot; four sevens may pay out the mid-level or maxi jackpot, and five sevens may pay out the highest or maxi jackpot. As shown in FIG. 4, the player is notified which of the combinations achieve which progressive payout. The player is notified that a progressive jackpot has been awarded (as shown in FIG. 6).
- [33] Once one of the levels of a progressive game has been paid out, that level resets itself to the base amount, at step 76. The other progressives that did not pay out keep increasing until someone wins that progressive jackpot. The progressive jackpots are created by a base amount being put into the pot (e.g., \$1,000 for the mini, \$3,000 for the maxi, and \$5,000 for the mega). Then, every time one of the gaming machines 10a, 10b, 10c, 10d in the system 28 is played, a percentage of the amount wagered is placed into each of the progressives. In some embodiments, 1% may go to the mini progressive, ½% to the maxi progressive, and ½% to the mega progressive. Because the maxi progressive and the mega progressive pay out less often than the mini progressive, less money needs to go to fund these progressives.
- [34] After the credits are all awarded and the progressive jackpot has been reset, the program goes back to step 60.
- [35] In some embodiments, the option to enter the progressive jackpot is only presented if the player chooses to play all of the paylines.

- [36] In another embodiment, this invention is utilized in a video poker machine. The game is played the same as conventional poker games, however, at the beginning of the game, the player activates the option key as described above. Once the player decides how many credits to bet, a hand is dealt, and the player chooses which cards to hold and is dealt new cards. After the hand is over, the player wins a certain amount of credits if their hand corresponds to a poker hand listed in a pay table. Some of the hands will also correspond to the progressive payouts, which are also listed in the pay table. As above, if the player ends the round with a hand (combination of cards or symbols) that corresponds to a winning outcome and if the player has activated the option key, then the player wins that progressive jackpot.
- [37] In another embodiment, instead of triggering the mini jackpot, a particular combination of symbols, e.g., three sevens, triggers a bonus game. The bonus game may be any of those known in the art.
- [38] In another embodiment, the signage controller 36 also controls the outcome of the progressive payout.
- [39] While the present invention has been described with reference to one or more particular embodiments, those skilled in the art will recognize that many changes may be made thereto without departing from the spirit and scope of the present invention. Each of these embodiments and obvious variations thereof is contemplated as falling within the spirit and scope of the claimed invention, which is set forth in the following claims.